

Phenological Gardens

Site Definition Field Guide

Task

To draw a map, take photographs, describe the soil, and locate the latitude, longitude, and elevation of your phenological garden site

What You Need

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| <input type="checkbox"/> GPS receiver | <input type="checkbox"/> Paper to draw map |
| <input type="checkbox"/> <i>Basic GPS Field Guide</i> | <input type="checkbox"/> Pencil or pen |
| <input type="checkbox"/> <i>GPS Data Sheet</i> | <input type="checkbox"/> Markers |
| <input type="checkbox"/> Compass | <input type="checkbox"/> <i>Soil Characterization Field Measurement Protocol</i> |
| <input type="checkbox"/> <i>Phenological Garden Site Definition Sheet</i> | <input type="checkbox"/> <i>Soil Characterization Lab Analysis Protocol</i> |
| <input type="checkbox"/> Camera | <input type="checkbox"/> Soil equipment for measuring pH (refer to protocol) |
| <input type="checkbox"/> Tape measure or meter stick | |

In the Field

1. After the garden is planted, draw a map of the garden showing the locations of each plant. Include on the map:
 - School name and address.
 - Date
 - Directions: North, East, South, West.
 - Distances between plants in meters
2. Label each plant with a marker.
3. Identify the latitude, longitude, and elevation following the *Basic GPS Measurement Protocol*.
4. Stand in the middle of the garden and take photographs in the North, East, South, West directions. Use the compass to determine the directions.
5. Take a photograph of the garden.
6. Identify the soil texture in the top 10 cm following *Soil Characterization Field Measurement Protocol*.
7. Measure the pH of the top 10 cm of soil following *Soil Characterization Lab Analysis Protocol*.
8. Submit map and photos to GLOBE by mailing to the address given in the *Implementation Guide* in the *GLOBE Teacher's Guide*.